SUBJECT INDEX

A. acid solutions, 645
A. aluminum, 645
A. Steel, 35
AC surface current, 1149
Acetate, 229
Acid corrosion, 1669
Acid inhibition (C), 243
Acid inhibition, 631, 817, 1307, 1669
Acid inhibitor, 979
Acid neutralisation, 1587, 2043
Acid solution, 299
Acid solutions, 1685
Acidic media, 127, 703
Active oxidation, 1093
Adatoms, 2131
Adsorption, 127, 703
AES, 313, 687, 991, 1623, 1725
AFM, 361, 957
55%Al–Zn coated steel, 1509
Al_6Fe, 831
$Al_xGa_{1-x}As$, 1839
Alkaline media, 2051
Alloy, 361, 739, 1169, 1269, 1661, 1823
Aluminium activation, 1023
Aluminium alloy, 1363
Aluminium, 585, 831, 1123, 1661, 1823, 2051
Amorphous iron oxyhydroxides, 2085
ANC, 1249
Anodic film, 831
Anodic films, 443, 1831
Anodic oxides, 1839
Anodizing, 831, 1823, 1839
Anticorrosive primer, 1351
Applied potential, 1741
Atmospheric corrosion, 91, 183, 753, 957, 969, 1123, 1509, 1539, 1599, 1611
AZ91D, 1433

B. Modeling studies, 35
B. modeling study, 645
B. SIMS, 53
Back reaction, 1055
Bentonite, 885
Binding, 329
Biomaterial, 1651, 2167, 2193
Bipyrazolic, 929
Borate, 1
Brass, 53
Breakdown potential, 345
Breakdown, 1
Buffering, 1587, 2043

C, 91
4- and 5- carboxybenzotriazole, 259
C. acid inhibition, 645
C. Atmospheric corrosion, 35
C. Selective dissolution, 53
Capacitance measurements, 687
Capacitance, 201
Carbon steel, 505, 561
Cathodic arc plasma deposition, 2201
Cathodic protection, 655, 1389
Cement, 329, 1587, 2043
Chelating inhibitor, 1235
Chloride environments, 1249
Chloride ion, 1651
Chloride threshold level, 1587
Chloride threshold, 2043
Chloride, 1, 329, 923, 2145
Chlorine induced corrosion, 1093
Chromium, 1093
CoANC, 1249
Coating holiday, 1389
Coating, 969
Cobalt, 799
Concrete, 329, 675, 923, 1489, 2043, 2145
Contact Electric Resistance technique, 421
Conversion coatings, 275
Copper (A), 243
Copper, 165, 631, 799, 957, 1123, 1539, 1553, 1763, 1801
Corrosion B. SEM, 53
Corrosion inhibition, 2131
Corrosion inhibitor, 703
Corrosion inhibitors, 127
Corrosion protection, 1235, 2037
Corrosion rates, 2131
Corrosion resistance, 2103
Corrosion, 329, 731, 923, 929, 1055, 1197, 1213, 1433, 1587, 2043, 2131, 2201
Crevice corrosion, 1389
Cu–Ni alloys, 383
Cyclic voltammetry, 1685, 2051

Dealloying, 1553
Deconvolution, 1149
Defect, 969
Degradation, 201
Delhi iron pillar, 2085, 2103
Die-cast, 1433
Diffuse layer impedance, 79
Diffusion, 329, 861, 2145
Dilute electrolyte, 79
Disbonded coating, 1389
Dissimilar metal weld, 1005
Dissolved oxygen, 2167
Double layer, 79
2205 Duplex stainless steel, 1741
Duplex stainless steel, 545

Effects of strain, 1283
EIS, 183, 289, 817, 969, 979, 1249, 1283, 1337, 1363, 1457, 1509, 1523, 1599, 1611, 1801
Electrochemical calculation, 655
Electrochemical impedance spectroscopy (EIS), 127, 443, 703, 1307, 2201
Electrochemical impedance, 79
Electrochemical noise data, 1023
Electrochemical process, 2145
Electrochemical Quartz Crystal Microbalance, 1379
Electrochemical treatment, 923
Electrode potential, 1005
Electrodeposited films, 1169
Environmentally assisted cracking, 1741
Epoxy coating, 2037
Erosive wear, 147
EXAFS, 1599
Exfoliation corrosion, 1363
Exposure direction, 1471

Finite element, 2145
Flow-induced corrosion, 147
Fourier transform infrared spectroscopy, 2085
Frequency domain, 675

$GaInP_2$, 1831
Galvanized steel, 1337
Galvanostatic polarization, 1
Galvanostatic, 229, 675, 1539
General corrosion, 561

Hematite, 201
High temperature corrosion, 991, 1635, 1725
High temperature oxidation, 383
High temperature water, 1005
High temperature, 861
High temperatures, 165
Hydration products, 1587
Hydrochloric acid, 929
Hydrodynamics, 561
Hydrogen absorption, 1269
Hydrogen assisted cracking, 1741
Hydrogen sulphide, 299
Hydrophobic interphase, 2037

Immersion potential, 885
Impedance spectroscopy, 201, 275, 2051
Impedance, 885
In situ, 229
Inclination, 1471
Ndium, 1023
Indoor corrosion, 1123
Ingot, 1433
Inhibition, 259, 505, 577, 731, 929
Inhibitor, 1197
Intergranular corrosion, 313, 1685
Ion implantation, 2201
IR spectroscopy, 957, 1539
Iron alloys, 1709
Iron hydrogen phosphate, 2103
Iron oxide, 201
Iron, 165, 229, 345, 817, 929, 1093, 1169, 1327, 1351, 1379, 1417, 1523, 1669

Kinetics, 861

Lead release, 53
Life prediction, 329
Localized corrosion, 421
Low alloy steel, 979, 991, 1611, 1725
Low carbon steel, 201
Low oxygen pressures, 165

Magnesium alloys, 1433
Magnesium, 275
Magnetite, 201
Measurement of evolved hydrogen, 577
Mechanical alloys, 1763
Metal coating, 655
Metal coatings, 183
Metal matrix composite, 481
Microbially influenced corrosion, 897
Microbiological corrosion, 1417
Microscopy, 1327
Microstructure, 861, 1433, 2103

Migration, 2145
Mild steel, 127, 703, 1307
Mixed control, 1055
Mixed potential theory, 2103
Modelling, 329, 897
Mössbauer spectroscopy, 753, 2085

Natural honey, 731
Natural organic matter (NOM), 53
Neodymium, 1823
Neutral solution, 885
Ni-10Cr-11Al-8Ti, 1185
Ni-3Cr-20Al, 1185
Nickel sulphide, 299
Nickel, 299, 1093, 1169, 1635, 1763
Niobium, 361
Nitric acid, 2069
Non-ferrous metals, 1123

Oil-in-water emulsions, 561
Organic coatings, 1283
Organic phosphonium compounds, 1307
Organometallic layer, 1235
Oxadiazole, 127
Oxidation, 165, 201, 721, 799, 991, 1185, 1327, 1417, 1573, 1725, 1763, 1831
Oxide films, 687
Oxide thickness, 201
Oxygen reduction, 1169

Paint coatings, 1337
Palladium, 1213
Parabolic kinetics, 201
Passivation, 2069
Passive film, 2103
Passive films, 229, 313, 481, 1709
Passivity, 1, 361, 443, 1351, 1779
pH, 2193
Phosphate, 2085
Photocurrent, 687
Pickling, 1457
Pitting corrosion, 289, 545, 585, 785
Pitting, 345, 2069
Polarisation curves, 127, 703
Polarisation, 313
Polarization equation, 1055
Polarization of crevices, 1389
Polarization, 481, 585, 631, 817, 1523, 1651, 2167, 2193
Polymer coatings, 1283, 1523
Potential distribution, 1389
Potentiodynamic polarization, 1457
Potentiostatic polarization (B), 243
Potentiostatic, 1269
Precipitation, 1185
Pressurised water reactor, 1005
Pulsed plasma deposition, 1213

QCM, 957

Reaction mechanism, 383
Rebar, 675
Reduced sulphur compound, 299
Reduction, 229
Relative humidity, 969
Repassivation, 345
Resistance, 201
Runoff, 1471
Rust characterization, 2085
Rust, 1611

SCC, 505
Segregation, 991
Selective dissolution, 545
SEM, 481, 585, 721, 1623
Silver, 739
Slow strain rate testing, 1741
Slurry erosion–corrosion, 147
Sodium sulphate, 785
Solution potential difference, 1149
Sputtered films, 361, 721
Sputtered nanocrystalline coating, 1185
SRB medium, 345
Stainless alloys, 897
Stainless steel, 289, 313, 421, 687, 1269, 1457, 1635, 1685, 1779, 2069
Steel, 655, 731, 753, 1197, 1327, 1489, 1587, 1623, 2043
Steels, 2201
Stress corrosion cracking, 545, 1005, 1741
Stress corrosion, 739
Sulphate-reducing bacteria, 897
Superalloys, 1573
Surface analysis, 1197
Surface treatment, 1235
Synergistic effect, 147

TEM, 585
Thermogravimetry, 1093
Thiosulfate, 421
Thiosulphate, 505
Threshold level, 923
Time domain, 675
TiN coating, 147

Titanium, 481, 721, 885, 1213
Tube, 1457

Wo-phase alloys, 799
Water chemistry, 1005
Water sorption, 2037
Weight loss, 1685

X-ray photoelectron spectroscopy, 1651, 1709
X-ray photoelectron XANES, 229
XPS, 817, 1197, 1539, 1623, 1725
XRD, 183, 721, 1509

Zinc, 1, 183, 577, 655, 1123, 1235, 1249, 1283, 1471, 1599
Zirconium-based amorphous alloy, 1651, 2167, 2193

AUTHOR INDEX

Aastrup, T. 957
Abd El Aal, E. E. 1
Abd El Rehim, S. S. 785
Abdallah, M. 731
Abed, Y. 929
Agarwal, P. 1197
Agrawal, A. N. 1553
Akiyama, E. 361
Aksüt, A. A. 2051
Alanyali, H. 2201
Alvarez, M. G. 739
Ambat, R. 1433
Angell, P. 897
Aouniti, A. 929
Aramaki, K. 817, 1523, 1975, 2023
Aries, L. 941
Ariès, L. 1235
Armon, R. 345
Asami, K. 361
Aung, N. N. 1433
Avci, R. 211
Azambuja, D. S. 631
Azumi, K. 885

Baarslag, P. C. 1169
Balasubramaniam, R. 2085, 2103
Balbaud, F. 1685
Barson, S. D. 1213
Becerra, H. Q. 561
Belo, M. . C. 687
Ben Bachir, A. 941
Bentiss, F. 127, 703
Bera, S. 1709
Blackwood, D. J. 481
Bonin, P. M. L. 1921
Bottle, S. E. 259
Breslin, C. B. 275, 1023
Brett, C. M. A. 1881
Brnada, A. 243
Brown, G. M. 831
Büchler, M. 1661
Buenfeld, N. R. 329, 923, 1587, 2013
Burstein, G. T. 841

Campestrini, P. 1853
Cavaleiro, A. 1881
Chang, J. R. 1599
Chatterjee, I. 201
Chen, G. 1185
Chen, M.-S. 545
Chen, S. 299, 1669
Chen, X. 299
Chen, Y. 979
Cheng, J. R. 1249
Cheng, X. 299, 1305, 1669
Chico, B. 91
Chiou, S. D. 1249
Chmielewski, A. G. 1213
Chou, S.-L. 1741
Chua, A. W. C. 481
Chung, D. D. L. 1489
Chung, K.-W. 517
Chung, S. C. 1249, 1599
Conde, A. 1363
Congleton, J. 1005
Corfias, C. 1337
Corvo, F. 1123
Crolet, J.-L. 913, 1303

Da Cunha Belo, M. 1635
Dai, Z. 1379
Davis, B. W. 2187
de Damborenea, J. 1363
Deflorian, F. 1283
Dehri, I. 969
Delblanc-Bauer, A. 915, 1457
Desai, V. 1623
Droguett, G. 1351

Echeverria, F. 1839
El Hajjaji, S. 941
El-Etre, A. Y. 731
El-Feki, A. A. 1055
El-Mahdy, G. A. 183, 1509
El-Naggar, M. M. 773
Elkacemi, K. 929
Elkadi, L. 703
Emregül, K. C. 2051
Erbil, M. 969

Farne, G. 799
Farnè, G. 1763

Farooque, M. 1573
Fauvet, P. 1685
Fedrizzi, L. 1283
Ferguson, J. F. 53
Fernández, S. A. 739
Ferreira, M. G. S. 687, 1635
Fevrier, A. 1041
Flandrois, S. 1041
Flis, J. 313
Foad El Sherbini, E. E. 785
Frey, M. 1197
Fu, G. 799
Fukuoka, K. 585

Galaup, G. 533
Galvele, J. R. 739
Gan, F. 1379
Gancedo, J. R. 753
Gao, W. 2069
Geler, E. 631
Gesmundo, F. 165, 799, 1763
Gillham, R. W. 1921
Glass, G. K. 329, 923, 1587, 2013, 2043
Gopal, M. 979, 1623
Grabke, H. J. 1093
Gracia, M. 753
Graham, M. J. 1839
Grassi, V. 505
Greeff, A. P. 991, 1725
Grötzschel, R. 1213
Guenbour, A. 941
Guillaumin, V. 105

Habazaki, H. 361, 405, 533, 721, 831, 1083, 1823, 1839
Habib, K. 455
Hakiki, N. E. 687, 1635
Hammouti, B. 929
Hanawa, T. 1651, 2167, 2193
Haruna, T. 1071
Hashimoto, K. 361, 721
Haugsrud, R. 383
He, W. 1471
Heaney, D. F. 1779
Herrera-Erazo, A. E. 1823
Hiromoto, S. 1651, 2167, 2193
Holroyd, N. J. H. 17
Hong, T. 289, 979
Hong, Z. 645
Hong-Xuan, R. 645
Hou, J. 1489
Hourani, M. 2131
Huynh, N. 259

Isaacs, H. S. 67, 229, 1149
Itoh, J. 1539

Jędral, W. 1921
Jepson, P. 1623
Jepson, W. P. 289, 979
Jian, L. 1573
Jones, D. A. 201
Joseph, G. 753

Kale, A. 1623
Kaneko, M. 67
Katayama, H. 1611
Kawashima, A. 361, 721
Kertit, S. 929
Khaselev, O. 345, 1831
Kihn, Y. 533
Kikuchi, T. 817
Kim, J. K. 1553
Kim, K.-B. 517
Kobayashi, K. 831
Kodama, T. 655, 1611
Kolman, D. G. 1863
Korshin, G. V. 53
Kotsikos, G. 17
Kreissig, U. 1083
Kumar, A. V. R. 2085
Kurtis, K. E. 1327

Lacabanne, C. 1337
Lagrenee, M. 127
Lagrenée, M. 703
Laitinen, T. 421
Lamazouère, A. M. 1235
Lancaster, A. N. 53
Landolt, D. 1197
Laycock, N. J. 605, 2069
Lee, D. B. 721
Lendvay-Győrik, G. 79
Lengyel, B. 79
Lewandowski, Z. 211
Leygraf, C. 915, 957, 1457, 1471
Li, G. 1669
Li, G. F. 1005
Li, L. Y. 2145
Li, S.-J. 2037
Li, Y. S. 165, 1763
Lin, A. S. 1599
Lou, H. 1185
Louw, C. W. 991, 1725
Lu, C. 675
Lu-An, Y. 645

Luo, X.-W. 2037

Ma, H. 299, 1669
Macdonald, D. D. 561, 1779
Mance, A. D. 243
Mankowski, G. 105
Mankowski, J. 313
Manov, S. 1235
Mansfeld, F. 275
Marco, J. F. 753
Margadant, N. 405
Mariaca, L. 91
Martini, E. M. A. 443
Martín-Luengo, M. A. 753
Matamala, G. 1351
Matteazzi, P. 1763
McCafferty, E. 1993
van den Meerakker, J. E. A. M. 1169
Mehmood, M. 361
Mendoza, A. R. 1123
Mernari, B. 703
Mészáros, G. 79
Mészáros, L. 79
Meyer-Ilse, W. 1327
Ming-Dao, L. 645
Monteiro, P. J. M. 1327
Montemor, M. F. 687, 1635
Monticelli, C. 505
Morad, M. S. 1307
Moran, P. J. 2187
Morcillo, M. 35, 91
Müller, B. 577
Muller, I. L. 443

Nagumo, M. 289
Nair, K. V. K. 1417
Nakayama, N. 1897
Narasimhan, S. V. 1709
Nath, D. 1553
Natishan, P. M. 2187
Nishikata, A. 183, 1509
Nishimura, T. 1611
Niu, L. 1669
Niu, Y. 165, 799, 1763
Noda, K. 1611
Noh, J. S. 2069
Notoya, T. 259
Nozawa, K. 1523

Oblonsky, L. J. 229
Odnevall Wallinder, I. 1471
Odziemkowski, M. S. 1921
Ohtsuka, T. 1539
Olesen, B. H. 211
Oliveira, J. C. 1881
Olsson, C.-O. A. 1197
Osawa, N. 585
Otero, E. 91
Oughourlian, C. 577

Page, C. L. 2145
Palit, A. 1801
Pan, J. 915, 1457
Pébère, N. 1337
Pehkonen, S. O. 1801
Peiyu, Y. 675
Perdomo, J. J. 1389
Picard, G. 1685
Piekoszewski, J. 1213
Pintos, S. 35
Pound, B. G. 1269, 1941

Quan, Z. 1669
Queipo, N. V. 35

Ramdani, A. 929
Randi, G. 1763
Rangarajan, S. 1709
Rao, T. S. 1417
Reddy, B. 1587, 2013
Retamoso, C. 561
de Rincón, O. T. 35
Rincón, A. 35
Rohatgi, P. K. 1553
van Rooijen, H. W. 1853
Rossi, S. 1283
Roux, J. C. 1041
Rudd, A. L. 275, 1023
Ryan, M. P. 229

Sairam, T. N. 1417
Sanchez, G. 1685
Santarini, G. 1685
Sapre, K. 1623
Sasaki, K. 841
Sasaki, T. 1539
Sato, N. 1957
Schreiner, M. 957
Schubert, M. 577
Schweinsberg, D. P. 259
Scully, J. R. 1863
Seah, K. H. W. 481
Seal, S. 1623
Senkevich, J. J. 201

Seo, M. 885
Sergi, G. 2043
Shibata, T. 1071
Shih, H. C. 1249, 1599
Shimizu, K. 405, 533, 831, 1083, 1823, 1839
Skeldon, P. 405, 533, 831, 1083, 1213, 1823, 1839
Smeltzer, W. 1351
Smyrl, W. H. 1661
Song, I. 1389
Song, J. 799
Souto, R. M. 2201
Spencer, N. D. 405
Spiegel, M. 1093
Starosvetsky, D. 345
Starosvetsky, J. 345
Stupnišek-Lisac, E. 243
Sumita, M. 1651, 2167, 2193
Sutcliffe, J. M. 17
Swart, H. C. 991, 1725

Tahara, A. 655
Teoh, S. H. 481
Terblans, J. J. 991
Textor, M. 405
Thampuran, R. 481
Thierry, D. 1149
Thompson, G. E. 405, 533, 831, 1083, 1213, 1823, 1839
Touhami, F. 929
Trabanelli, G. 505
Traisnel, M. 127, 703
Tsai, A.-P. 1651, 2167, 2193
Tsai, W.-T. 545, 1741
Tsuji, N. 1523
Tsuru, T. 183, 1509
Tu, J. P. 147
Turner, J. A. 1831
Tzoganakou, K. 1083

Udyavar, M. 861
Urbanic, K. 897

Verbiest, P. 1471
Vignal, V. 1041
Viswanathan, B. 1417

Wadsak, M. 957
Wallinder, D. 915, 1457
Walter, G. W. 1055
Wan, J. 405
Wang, D. 1379
Watari, T. 1661
Wedian, F. 2131
Weir, G. J. 605
Wells, D. B. 2069
Werner, Z. 1213
van Westing, E. P. M. 1853
White, S. P. 605
Wieser, E. 1083, 1213
de Wit, J. H. W. 1853
Wood, G. C. 405, 831

Xiao-Ci, Y. 645
Xie, B. 469
Xie, N. 469

Yahalom, J. 345
Yao, L.-a. 1379
Yao, Z. 299
Yasui, N. 885
Young, D. J. 861
Yuh, C. Y. 1573

Zahs, A. 1093
Zakroczymski, T. 313
Zeng, C. 799
Zhang, S. 1071
Zhang, S.-Y. 2037
Zhao, S. 1669
Zhou, A. 469
Zhou, W. 1433
Zhou, W.-F. 2037
Zhou, X. 533, 1083
Zou, F. 1149
Zucchi, F. 505